ADDENDA

Added to LeMans schematic and printed circuit boards.

Please make sure that these modifications are done to the printed circuit boards.

1st modification: if for audio getting into video.

1) A .luf 100v mylar capacitor located at C31 next to the 2200uf capacitor by edge of board.

2nd modification: to check for inversion of playfield at free play.

1) A 7486 I.C. at location A4 on printed circuit board.

   NOTE: 7486 is attached to the top of a 7474 I.C. located a A4. Only pin 14 and pin 7 are soldered. The rest are bent out so jumper wire can be attached.

2) Cut and lift pins 13 of M7. Pin 11 of B4 and C4 and pin 13 of B7.
3) Jumper A7 pin 10 to B7 pin 13.
4) Jumper F3 pin 9 to A4 pin 1 (7486).
5) Jumper A1 pin 8 to A4 pin 2 (7486).
6) Jumper A4 pin 3 (7486) to A4 pin 4 (7486).
7) Jumper A4 pin 5 (7486) to nearest pull up resistor.
8) Jumper A4 pin 6 (7486) to C4 and B4 pin 11.
9) Jumper M7 pin 13 to A4 (7486) pin 9.
10) Jumper M2 pin 3 to A4 (7486) pin 10.
11) Jumper M7 pin 13 to A4 (7486) pin 8.
12) Changed R52, a 330 ohm resistor to a 560 ohm resistor.
13) Paralleled a 4.7K ohm resistor across R51.
14) Paralleled a IN914 diode across R41.

   Make sure that the cathode of diode is connected to the negative side of C26, a 10uf capacitor.

GK/cm

SPARE PARTS LIST

GAME NAME LeMans

*Critical Parts

ITEM	PART NUMBER	QTY.	DESCRIPTION
	37-3400	4	IC 7400
2	37-7402	3	IC 7402
3	37-7404	3	IC 7404
4	37-74504	1	IC 74504
5	37-7406	1	IC 7406
6	37-7408	2	IC 7408
7	37-7410	2	IC 7410
8	37-7413	1	IC 7413
9	37-7427	1	IC 7427
10	37-7442	1	IC 7442
11	37-7474	8	IC 7474
12	37-7486	1	IC 7486
13	37-7493	3	IC 7493
14	37-74107	2	IC 74107
15	37-74153	2	IC 75153
16	37-74164	1	IC 74164
17	37-74165	2	IC 74165
18	37-74192	1	IC 74192
19	37-74193	2	IC 74193
20	37-555	1	IC 555
21	37-566	2	IC 566
22	37-LM309	1	IC LM309K
23	37-LM324	1	IC LM324
24	37-LM380	1	IC LM380
25	37-9314	2	IC 9314
26	37-9316	4	IC 9316
27	37-9321	1	IC 9321
28	37-9322	1	IC 9322

SPARE PARTS LIST

GAME NAME ____________________

*Critical Parts

TEM	PART NUMBER	QTY.	DESCRIPTION
29	37-MFC6040	1	IC MFC6040 *
30 Ø	37-MFC3340	1	IC MFC3340
31	37-4011	1	IC 4011
32	37-4016	1	IC 4016
33	37-8L05	1	IC 78L05 *
34	37-7812	1	IC 7812 *
35	37-79L05	1	IC 79L05 *
36	37-7912	1	IC 7912 *
37	005837-01	1	Rom 1 *
38	005838-01	1	Rom 2 *
39	005839-01	1	Rom 3 *
40	35-2N6068A	1	Triac 2N6068A *

Ø Note: If MFC 6040 is not available, MFC 3340 may be substituted.

LEMANS SPARE PARTS

A000598-03	Steering Assy. (includes A000607)	1
A000608-01	Shift Assy.	1
A004304-07	Start Switch	1
A004798	Foot Pedal Assy.	2
001551-1	X - Former	1

PCB ASSEMBLY A005844